



KZI-002US

SEQUENCE LISTING

<110> DEPERTHES, David  
CLOUTIER, Sylvain  
MACH, Jean-Pierre  
HOLLER, Nils  
FATTAH, Omar

<120> PEPTABODY FOR CANCER TREATMENT

<130> KZI-002US

<140> 10/551977

<141> 2005-10-04

<150> PCT/IB2004/001049

<151> 2004-04-05

<150> US 60/460,490

<151> 2003-04-04

<160> 30

<170> PatentIn version 3.1

<210> 1

<211> 417

<212> DNA

<213> Artificial sequence

<220>

<223> DNA Sequence Peptabody EGF: MDP01

<400> 1

atgtatagct	ttgaagatct	ggctagccat	catcatcacc	atcatggaga	cctgggcccg	60
cagatgctgc	gtgaactgca	ggaaaccaac	gctgctctgc	aggacgttcg	tgactacctg	120
cgtcagctgg	ttcgtgaaat	caccttcctg	aaaaacaccg	ttatggaatg	cgacgcttgc	180
ggtatgcagc	agactagtcc	gcctactccg	ccaactccgt	ctccgtctac	tccgccaaact	240
ccgtctccga	gatccaattc	tgactctgaa	tgcccattgt	ctcacgacgg	ttactgcttg	300
cacgacggtg	tttgcattga	catcgaagct	ctggacaaat	acgcttgcaa	ctgcgttggt	360
ggttacatcg	gtgaacggtg	ccaataccga	gatctgaaat	ggtgggaact	gcgttaa	417

<210> 2

<211> 138

<212> PRT

<213> Artificial sequence

<220>

<223> Protein Sequence Peptabody EGF: MDP01

<400> 2

Met	Tyr	Ser	Phe	Glu	Asp	Leu	Ala	Ser	His	His	His	His	His	Gly
1				5					10				15	
Asp	Leu	Gly	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
			20					25					30	

```

Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
  35          40          45
Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
  50          55          60
Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
  65          70          75          80
Pro Ser Pro Arg Ser Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
      85          90          95
Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
      100          105          110
Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
      115          120          125
Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg
      130          135

```

```

<210> 3
<211> 333
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> DNA Sequence Peptabody GBP: MDP03

```

```

<400> 3
atgtatagct ttgaagatct ggctagccat catcatcacc atcatggaga cctgggcccg      60
cagatgctgc gtgaactgca ggaaaccaac gctgctctgc aggacgttcg tgactacctg      120
cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc      180
ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaact      240
ccgtctccga gatctgaaaa cttttccggc ggctgcgtgg cgggctatat gcgtaccccc      300
gatggccggtt gcaaaccgac cttttatcag taa                                333

```

```

<210> 4
<211> 110
<212> PRT
<213> Artificial sequence

```

```

<220>
<223> Protein Sequence Peptabody GBP : MDP03

```

```

<220>
<221> MISC_FEATURE
<222> (1)..(110)
<223>

```

```

<400> 4

```

```

Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His His Gly
1          5          10          15
Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala
      20          25          30
Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
      35          40          45
Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
      50          55          60
Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
      65          70          75          80
Pro Ser Pro Arg Ser Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr

```

				85					90					95
Met	Arg	Thr	Pro	Asp	Gly	Arg	Cys	Lys	Pro	Thr	Phe	Tyr	Gln	
			100					105					110	

<210> 5  
 <211> 4  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Enhancer Peptide

<400> 5  
 Tyr Ser Phe Glu  
 1

<210> 6  
 <211> 6  
 <212> DNA  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Enhancer Peptide

<400> 6  
 Tyr Ser Phe Glu Asp Leu  
 1 5

<210> 7  
 <211> 7  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Enhancer Peptide

<400> 7  
 Tyr Ser Phe Glu Asp Leu Tyr  
 1 5

<210> 8  
 <211> 8  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Enhancer Peptide

<400> 8  
 Tyr Ser Phe Glu Asp Leu Tyr Arg  
 1 5

<210> 9  
 <211> 9  
 <212> PRT  
 <213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Enhancer Peptide

&lt;400&gt; 9

Tyr Ser Phe Glu Asp Leu Tyr Arg Arg

1

5

&lt;210&gt; 10

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Pseudoplusia includens

&lt;400&gt; 10

Glu Asn Phe Asn Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp

1

5

10

15

Gly Arg Cys Lys Pro Thr Phe

20

&lt;210&gt; 11

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Spodoptera litura

&lt;400&gt; 11

Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr Met Arg Thr Pro Asp

1

5

10

15

Gly Arg Cys Lys Pro Thr Phe Tyr Gln

20

25

&lt;210&gt; 12

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Mamestra brassicae

&lt;400&gt; 12

Glu Asn Phe Ala Ala Gly Cys Ala Thr Gly Tyr Gln Arg Thr Ala Asp

1

5

10

15

Gly Arg Cys Lys Pro Thr Phe

20

&lt;210&gt; 13

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Spodoptera eridania

&lt;400&gt; 13

Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Tyr Leu Arg Thr Ala Asp

1

5

10

15

Gly Arg Cys Lys Pro Thr Phe

20

&lt;210&gt; 14

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Manduca sexta

&lt;400&gt; 14

Glu Asn Phe Ala Gly Gly Cys Ala Ala Gly Tyr Leu Arg Thr Ala Asp  
 1 5 10 15  
 Gly Arg Cys Lys Pro Thr Phe  
 20

&lt;210&gt; 15

&lt;211&gt; 23

&lt;212&gt; PRT

<213> *Manduca sexta*

&lt;400&gt; 15

Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Phe Leu Arg Thr Ala Asp  
 1 5 10 15  
 Gly Arg Cys Lys Pro Thr Phe  
 20

&lt;210&gt; 16

&lt;211&gt; 23

&lt;212&gt; PRT

<213> *Heliothis virescens*

&lt;400&gt; 16

Glu Asn Phe Ser Gly Gly Cys Ile Pro Gly Tyr Met Arg Thr Ala Asp  
 1 5 10 15  
 Gly Arg Cys Lys Pro Thr Tyr  
 20

&lt;210&gt; 17

&lt;211&gt; 23

&lt;212&gt; PRT

<213> *Heliothis virescens*

&lt;400&gt; 17

Glu Asn Phe Ala Gly Gly Cys Ile Pro Gly Tyr Met Arg Thr Ala Asp  
 1 5 10 15  
 Gly Arg Cys Lys Pro Thr Tyr  
 20

&lt;210&gt; 18

&lt;211&gt; 24

&lt;212&gt; PRT

<213> *Trichoplusia ni*

&lt;400&gt; 18

Glu Asn Phe Ser Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp  
 1 5 10 15  
 Gly Arg Cys Lys Pro Thr Phe Gly  
 20

&lt;210&gt; 19

&lt;211&gt; 23

&lt;212&gt; PRT

<213> *Trichoplusia ni*

&lt;400&gt; 19

Glu Asn Phe Ser Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp

1	5	10	15
Gly Arg Cys Lys Pro Thr Phe			
20			

<210> 20  
 <211> 23  
 <212> PRT  
 <213> *Antheraea yamamai*

<400> 20			
Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Phe Met Arg Thr Ala Asp			
1	5	10	15
Gly Arg Cys Lys Pro Thr Phe			
20			

<210> 21  
 <211> 23  
 <212> PRT  
 <213> *Spodoptera eridania*

<400> 21			
Glu Asn Phe Ala Val Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp			
1	5	10	15
Gly Arg Cys Lys Pro Thr Phe			
20			

<210> 22  
 <211> 23  
 <212> PRT  
 <213> *Spodoptera eridania*

<400> 22			
Glu Asn Phe Ala Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp			
1	5	10	15
Gly Arg Cys Lys Ala Thr Phe			
20			

<210> 23  
 <211> 23  
 <212> PRT  
 <213> *Spodoptera eridania*

<400> 23			
Glu Asn Phe Ala Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp			
1	5	10	15
Gly Arg Cys Lys Pro Thr Phe			
20			

<210> 24  
 <211> 23  
 <212> PRT  
 <213> *Spodoptera eridania*

<400> 24			
Glu Asn Phe Val Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp			
1	5	10	15
Gly Arg Cys Lys Pro Thr Phe			

20

<210> 25  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 25  
 Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys  
 1 5 10 15  
 Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys  
 20 25 30  
 Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu  
 35 40 45  
 Leu Ala  
 50

<210> 26  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 26  
 Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu  
 1 5 10 15  
 Ser Glu Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys  
 20 25 30  
 Asn Gly Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala  
 35 40 45  
 Glu Phe Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His  
 50 55 60  
 Leu Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg  
 65 70 75 80  
 Cys Gly Glu Lys

<210> 27  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 27  
 Asp Leu Gln Glu Ala Asp Leu Asp Leu Leu Arg Val Thr Leu Ser Ser  
 1 5 10 15  
 Lys Pro Gln Ala Leu Ala Thr Pro Asn Lys Glu Glu His Gly Lys Arg  
 20 25 30  
 Lys Lys Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg  
 35 40 45  
 Lys Tyr Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu  
 50 55 60  
 Leu Arg Ala Pro Ser Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg  
 65 70 75 80  
 Cys His Gly Leu Ser Leu  
 85

<210> 28  
 <211> 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

Asp	Gly	Asn	Ser	Thr	Arg	Ser	Pro	Glu	Thr	Asn	Gly	Leu	Leu	Cys	Gly
1				5					10					15	
Asp	Pro	Glu	Glu	Asn	Cys	Ala	Ala	Thr	Thr	Gln	Ser	Lys	Arg	Lys	
		20						25				30			
Gly	His	Phe	Ser	Arg	Cys	Pro	Lys	Gln	Tyr	Lys	His	Tyr	Cys	Ile	Lys
		35					40					45			
Gly	Arg	Cys	Arg	Phe	Val	Val	Ala	Glu	Gln	Thr	Pro	Ser	Cys	Val	Cys
	50					55					60				
Asp	Glu	Gly	Tyr	Ile	Gly	Ala	Arg	Cys	Glu	Arg	Val	Asp	Leu	Phe	Tyr
65					70					75					80

&lt;210&gt; 29

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 29

Arg	Lys	Gly	His	Phe	Ser	Arg	Cys	Pro	Lys	Gln	Tyr	Lys	His	Tyr	Cys
1				5					10					15	
Ile	Lys	Gly	Arg	Cys	Arg	Phe	Val	Val	Ala	Glu	Gln	Thr	Pro	Ser	Cys
		20						25					30		
Val	Cys	Asp	Glu	Gly	Tyr	Ile	Gly	Ala	Arg	Cys	Glu	Arg	Val	Asp	Leu
		35					40					45			
Phe	Tyr														
	50														

&lt;210&gt; 30

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Enhancer Peptide

&lt;400&gt; 30

Tyr	Ser	Phe	Glu	Asp
				5